

ABSTRACT

Active control of body contacts in memory devices can provide variable substrate voltages during device operation. The body contacts can be used to adjust the body bias of switches in activated memory cells, while maintaining the body bias of switches in inactive memory cells. This can reduce the body effect (i.e., variation of the threshold voltage due to a variation of the substrate or bulk voltage) and can therefore provide improved array device performance (e.g., reduced data corruption) while the word line (“WL”) is activated.